



Stars and Stripes Implanted on Surface of Moon

# FOOTSTEPS ON MOON!

They got back in. Both men had returned to the Eagle at 1:11 A. M. (EDT).

SPACE CENTER, Houston (AP) — Two Americans landed and walked on the Moon Sunday, the first human beings on its alien soil. They planted their nation's flag and talked to their President on Earth by radio-telephone.

Millions on their home planet 240,000 miles away watched on television as they saluted the flag, and scouted the lunar surface.

The first to step on the Moon was Neil Armstrong, 38, of Wapakoneta, Ohio. He stepped into the dusty surface at 10:56 p. m. (EDT). His first words were, "That's one small step for man, a giant leap for mankind."

Twenty minutes later, his companion, Edwin E. (Buzz) Aldrin Jr., 39, of Montclair, N. J., stepped to the surface. His words were, "Beautiful, beautiful, beautiful. A magnificent desolation."

They had landed on the Moon nearly six hours before, at 4:18 p. m.

President Nixon's voice came to the ears of the astronauts on the Moon from the Oval Room at the White House.

This has to be the most historic telephone call ever made," he said. "I just can't tell you how proud I am. . . . Because of what you have done the heavens have become part of man's world. As you talk to us from the Sea of Tranquility, it inspires us to redouble our efforts to bring peace and tranquility to man."

"All the people on Earth are

surely one in their pride of what you have done, and one in the prayers that you will return safely." Aldrin replied, "Thank you Mr. President. It is a privilege to represent the people of all peaceable nations." Armstrong added his thanks.

Armstrong's steps were cautious at first. He almost slipped.

The surface is fine and powdered, like powdered charcoal in the soles of the foot," he said. "I can see my footprints of my boots in the fine sandy particles."

Armstrong read from the plaque on the side of Eagle, the spacecraft that had brought them to the sur-

face. In a steady voice, he said, "Here man first set foot on the Moon, July, 1969. We came in peace for all man kind."

In the moments he walked alone, Armstrong's voice was all that was heard from the lunar surface.

He appeared phosphorescent in the blinding sunlight. He walked carefully at first in the gravity of the Moon, only one-sixth as strong as on Earth. Then he tried wide, gaseous-like leaps.

ALDRIN TRIED a kind of kangaroo-hop, but found it unsatisfactory. "The so-called kangaroo hop doesn't seem to work as well as the more conventional pace," he said. "It would get, rather tiring after several hundred."

In the lesser gravity of the Moon, each of the men, 165-pounders on Earth, weighed something over 25 pounds.

Armstrong began the rock picking on the lunar surface. Aldrin joined him using a small scoop to put lunar soil in a plastic bag.

Above them, invisible and nearly ignored, was Air Force Lt. Col. Michael Collins, 34, keeping his lonely patrol around the Moon for the moment when his companions blast-off and return to him for the trip back home. Collins said he saw a small white object on the Moon, but didn't think it was the spacecraft. It was in the wrong place.

Back in Houston, where the nearly half-Moon rode the sky in its zenith, Mrs. Jan Armstrong watched her husband on television.

HE ALSO FOUND some strange effects on balance. "You have to be careful you're leaning in the direction you want to go," he said.

"You have to cross your foot over

"I can't believe it is really happening," she said.

ARMSTRONG SURVEYED the rocky, rugged scene around him. "It has a stark beauty all its own," he said. "It's different. But it's very pretty out here."

They took pictures of each other, and Aldrin shot views of the spacecraft against the lunar background.

In a world where temperatures vary some 600 degrees, from 243 degrees below zero in sunlight, to 270 below in shadow, the men in the space suits felt comfortable.

Aldrin reported, "In general, time spent in the shadow doesn't seem to have any thermal effects inside the suit. There is a tendency to feel cooler in the shadow than out of the sun."

The sun was a problem for vision. "I have so much glare from the sun off the visor that when I go into shadow, it takes a while for my eyes to adjust," Aldrin said.

THE DUST, TOO, was unusual. "The color of my boot has completely disappeared into. . . I don't know how to describe it—a kind of cocoa has covered my boot."

In spite of the dust they raised as their rocket flares lit the surface from as high as 40 feet, there was no discernible crater below the descent engine, they reported.

The rocks of the Moon seemed to have a powdery surface. "I say the rocks are rather slippery," Aldrin reported. "The powdery surface fills up all the very little fine pores and you tend to slide over it very easily."

HE ALSO FOUND some strange effects on balance. "You have to be careful you're leaning in the direction you want to go," he said.

"You have to cross your foot over

to stay under where your center of mass is," Armstrong added.

With their awkward gloves, they appeared to have some trouble setting up the flag on its eight-foot pole. A rod along the upper edge held it out taut in the airless, windless world of the Moon. It was set up at 11:43 p. m.

They worked hard setting up the experiments. They set up a panel to measure the solar wind, the subatomic bits and pieces blown out from the sun. It was to return to Earth with them for analysis.

They also set up a seismometer to study the trembles, if any, in the lunar crust, and determine its structure. They also set up a laser mirror which would reflect light beams back to Earth, helping scientists measure the distance to the Moon, to an accuracy of six inches.

If the Moon walk was thrilling, the dangerous descent and landing were hardly less.

"Houston," Armstrong called out after the lunar lander settled on the Moon's surface. He hesitated almost two seconds. Then he added, "Tranquility Base here. The Eagle has landed."

"Fantastic," called down Collins from his orbiting command ship, Columbia.

**"One small step for man. One giant leap for mankind."**

## The Weather

Mostly cloudy and mild today with a chance of showers in the morning. Partly cloudy this afternoon with a low in the upper-80s, high in the mid-80s. Partly cloudy and mild tonight and Tuesday.

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